INTERNATIONAL SEARCH REPORT

International application No.

		PC1/JP2	2005/000274
A. CLASSIFIC Int.Cl	CATION OF SUBJECT MATTER 7 C22C38/00, 38/58, C21D6/00,	8/00, G21C3/07, 13/08,	G21D1/00
According to Int	ernational Patent Classification (IPC) or to both nationa	al classification and IPC	
B. FIELDS SE	EARCHED		
Minimum docum	nentation searched (classification system followed by compared to the compared	lassification symbols) /00, G21C3/07, 13/08, G	21D1/00
Documentation s	searched other than minimum documentation to the exte	ent that such documents are included in the	e fields searched
Kokai Ji	itsuyo Shinan Koho 1971-2005 To	tsuyo Shinan Toroku Koho oroku Jitsuyo Shinan Koho	1996-2005 1994-2005
Electronic data b	pase consulted during the international search (name of ALOG)	data base and, where practicable, search to	erms used)
C. DOCUMEN	NTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap		Relevant to claim No.
X Y	JP 5-59494 A (Hitachi, Ltd.) 09 March, 1993 (09.03.93), Examples & EP 530725 A1 & US	, 5316597 A	1,4,5,7,9-12 2,3,6
X Y	JP 7-209485 A (Hitachi, Ltd. 11 August, 1995 (11.08.95), Examples (Family: none)),	1,4,5,7,9-12 2,3,6
Y	JP 2-97651 A (Aichi Steel Wo 10 April, 1990 (10.04.90), Page 6, lower right column (Family: none)	rks Ltd.),	2,3
× Further do	cuments are listed in the continuation of Box C.	See patent family annex.	
* Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance "E' earlier application or patent but published on or after the international		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be	
filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other		considered novel or cannot be considered to involve an inventive step when the document is taken alone	
special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family	
12 Apri	l completion of the international search i.l., 2005 (12.04.05)	Date of mailing of the international sear 10 May, 2005 (10.05	
	ng address of the ISA/ se Patent Office	Authorized officer	
Facsimile No. Form PCT/ISA/21	0 (second sheet) (January 2004)	Telephone No.	

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·PCT/JP2005/000274

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	JP 4-14182 B2 (STOODY DELORO STELLITE, Inc.), 12 March, 1992 (12.03.92), Column 3, line 44 & FR 2573440 A & US 4643767 A & NL 8600208 A & US 4720435 A & GB 2167088 B & CA 1262514 B & SE 463105 B & IT 1188205 B	6
A	JP 54-69516 A (Hitachi, Ltd.), 04 June, 1979 (04.06.79), (Family: none)	8
A	JP 64-9379 B2 (Kobe Steel, Ltd.), 17 February, 1989 (17.02.89), (Family: none)	8